

Climate Change Unit Review

Key Terms:

atmosphere	climate	greenhouse effect	albedo
anthropogenic	eccentricity	tilt	wobble
tectonic plates	Climatograph	biome	ecozone
Koppen climate classification system		ecoregion	global warming
desertification	deforestation	Feedback Loop	Radiation
Conduction	Convection	Sinks	Greenhouse gas
Thermohaline Circulation		biogeochemical cycle	
Paleoclimatologist	Ice Core	Isotope	Sedimentary Rock
Fossils	Geostationary Satellites		Climate Model
General Circulation Model		Carbon Footprint	Bias

Apart from the key terms above, you should know the following from chapter 7

From Chapter 7.1

- Know the difference between climate and weather
- Know how the sun is responsible for climate change
- Know how the earth is responsible for climate change
- Know the details of the greenhouse effect
- Know how wind impacts climate
- Know how the oceans impact climate

From Chapter 7.2

- Know the different climate zones
- Know the Tropic of Cancer and the Tropic of Capricorn
- Know how to read a climatograph
- Know the different types of biomes in Canada (and the one that isn't in Canada)

From Chapter 7.3

- Know details about global warming
- Know melting ice caps
- Know rising sea levels and acidity
- Know health related issues to climate change

From Chapter 8.1

- Know how energy is recycled in a system, specifically positive and negative feedback loops
- Know the three ways thermal energy is transferred
- Know how temperature and density (saltness) influences the currents

- Know the basic premise of El Nino and La Nina

From Chapter 8.2

- Know how concentration is calculated
- Know how Water, Carbon Dioxide, Methane, Ozone, and Chlorofluorocarbons influence the greenhouse effect

From Chapter 8.3

- Know how energy is transferred between biotic (living) and abiotic (non living) parts of an ecosystem
- Know both the carbon cycle and the nitrogen cycle
- Know the 3 processes of Nitrogen Fixation

From Chapter 9.1

- Know how we study trees, ice cores, sedimentary rock and fossils to discover past climates

From Chapter 9.2

- Know how radar works to help determine rainfall
- Know how satellites are used in monitoring earth
- Know the four main satellites in the Earth Observing System (EOS)
- Know how climate models and general circulation models are used to predict future climates
- Know the limitations and restrictions of climate models

From Chapter 9.3

- Know how we can interpret climate change data
- Know how we can reduce our carbon footprint
- Know how Canada is attempting to reduce the carbon footprint on the earth (IPCC and Kyoto Protocol)

Recommended Questions

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